

WHELEN[®]

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Installation Guide / ICA: Model CHROMA() P/N:01-0771900() LED Position Lamp

TSO-C30c
 Type I & II;
 APPROVED



The conditions and tests required for TSO approval of this article are minimum performance standards. Those installing this article either on or within a specific type or class of aircraft must determine that the aircraft installation conditions are within the TSO standards which include any accepted integrated non-TSO functions. TSO articles and any accepted integrated non-TSO function(s) must have separate approval for installation in an aircraft. The article may be installed only according to 14 CFR part 43 or the applicable airworthiness requirements.

OPERATING INSTRUCTIONS:

Operational Voltage: 14 or 28 VDC
Average Input Current: 0.28 / 0.13 Amps
Weight: 1 oz. (ref.)

DESCRIPTION: The Whelen Chroma lamps are physical drop-in replacements for the various legacy lamps (1290(), W1290(), A7512(), 628 and W628). The Chroma lamps come with either red or green LEDs. The Chroma-series lamps are available in both 14VDC and 28VDC.

Model	P/N	Voltage	Color
CHROMA1G	01-0771900G14	14	Green
CHROMA1R	01-0771900R14	14	Red
CHROMA2G	01-0771900G28	28	Green
CHROMA2R	01-0771900R28	28	Red

EQUIPMENT LIMITATIONS: An approved forward position lighting system consists of two light assemblies, one located on each wingtip. The lamp must be installed in an appropriate lamp socket and behind a lens.

Certain types of installations may require additional testing.

AIRWORTHINESS LIMITATIONS: The Airworthiness Limitations section is FAA approved and specifies inspections and other maintenance required under §43.16 and §91.403 of the Federal Aviation Regulations, unless an alternative program has been FAA approved.

No airworthiness limitations are associated with the installation of the LED position lamp.

CONTINUED AIRWORTHINESS: The Chroma lamp is designed with multiple LEDs. If any one LED fails the unit must be repaired or replaced.

Note: To reduce eye strain, use an optical filter such as dark glasses or a blue covering dome during LED inspection.

PERIODIC INSPECTIONS: An annual inspection shall be performed unless the OEM manual specifies a shorter interval.

INSTALLATION PROCEDURES: The following information provides guidelines for the installation of the Whelen LED Position Lamp. Please refer to the OEM manual for your aircraft for specific removal and installation instructions.

Removal

1. Remove all electrical power or disable the applicable circuit breakers.
2. Place the lighting switch in the OFF position.
3. Inspect the lens, retainer and attachment points for any signs of abnormal wear or damage.
4. Remove the lens, retainer and screw and put in a safe place.
5. Remove the lamp from the holder.

Installation

1. Remove all electrical power or disable the applicable circuit breakers.
 2. Place the lighting switch in the OFF position.
 3. Choose the appropriate replacement lamp assembly.
 4. Examine the lamp socket. Make sure it is clean and free of foreign objects.
- CAUTION!** Do not touch the LEDs with either fingers or sharp objects as this could soil or damage the LEDs and affect the optical performance of the lamp.
5. Place the LED lamp into the holder ensuring the key (of the assembly) matches the key of the socket.
 6. Reinstall the lens and secure using the retainers and screws. Note: Visually confirm that the lens, gasket and retainers are properly seated.
 7. Enable applicable circuit breakers, place lighting switch in the ON position and verify proper operation of the Whelen lamps.
 8. Check all avionics systems for interference from this installation.
 9. A flight check should be performed by a properly certified pilot.
 10. If required, update aircraft records utilizing FAA Field Approval (Form 337) or equivalent.

